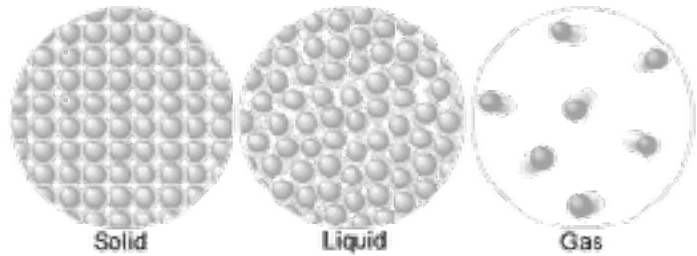


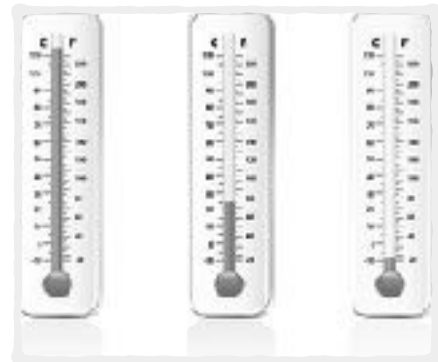
Matter is made up of tiny particles.



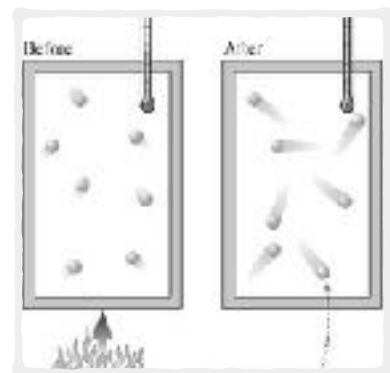
Temperature is a measure of the average kinetic energy of the individual particles in matter.



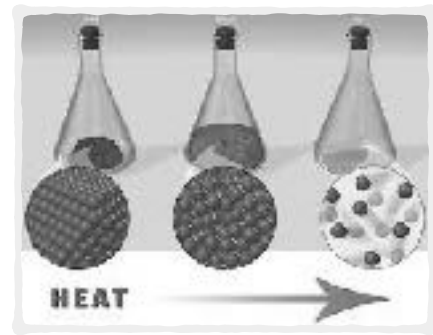
A thermometer has numbers and units, or a scale, on it. When you read the scale on a thermometer, you read the temperature of the surrounding matter



The total energy of all of the particles in an object is called thermal energy.



Thermal energy that is transferred from matter at a higher temperature to matter at a lower temperature is called heat.



The amount of energy required to raise the temperature of 1 kilogram of a material by 1 kelvin is called its specific heat.

Specific Heats of Selected Materials	
Material	C (J/kg-K)
Aluminum	817
Concrete	850
Diamond	509
Glass	840
Helium	5193
Water	4182